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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/995,880	11/28/2001	Thomas A. Koes	50884	1611	
21874	7590 05/02/2006		EXAMINER		
	S & ANGELL, LLP		LEE, SIN J		
P.O. BOX 55 BOSTON, M			ART UNIT PAPER NUMBER		
,			1752		
			DATE MAILED: 05/02/200	DATE MAILED: 05/02/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/995,880	KOES, THOMAS A.				
Office Action Summary	Examiner	Art Unit				
	Sin J. Lee	1752	···			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply b will apply and will expire SIX (6) MONTHS te, cause the application to become ABAND	TION. De timely filed from the mailing date of this communication ONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>09 F</u>						
, <u> </u>	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	•	•	S 1S			
·	ex parto Quayro, 1000 o.b. 11	, 100 0.0. 210.				
Disposition of Claims						
4) Claim(s) <u>1,2,5-13 and 16-20</u> is/are pending in	• •					
4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed.	awn from consideration.					
6)⊠ Claim(s) <u>1,2,5-13 and 16-20</u> is/are rejected.						
7) Claim(s) 2, 13, 16, 19, 20 is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	or					
10) The drawing(s) filed on is/are: a) acc		ne Examiner				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	• •	21(d).			
11)☐ The oath or declaration is objected to by the E						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119	9(a)-(d) or (f).				
1. ☐ Certified copies of the priority documen	ts have been received					
2. Certified copies of the priority documen		cation No				
3. Copies of the certified copies of the price						
application from the International Burea	nu (PCT Rule 17.2(a)).	•				
* See the attached detailed Office action for a list	t of the certified copies not rece	eived.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summ					
2)	Paper No(s)/Ma 5) Notice of Inform	il Date al Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	, , , , , , , , , , , , , , , , , , , ,				

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DETAILED ACTION

1. Applicant canceled claims 3, 4, 14 and 15.

2. In view of the amendment of February 9, 2006, previous 102(b) rejection on claims 1-6 and 8-20 over Ishikawa et al'854 and previous 103(a) rejection on claim 7 over Ishikawa et al'854 in view of Imai et al'025 are hereby withdrawn.

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Claim Objections

4. Claims 2, 13, 16, 19 and 20 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

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Claim 2 recites "carboxylic acids" in line 2, and this fails to further limit the subject matter of claim 1. Both claims 13 and 16 recite "salicylic acid, cyclohexanecarboxylic acid", and this fails to further limit the subject matter of claim 12. Both claims 19 and 20 recite "lactic acid, tartaric acid, malic acid", and this fails to further limit the subject matter of claim 18.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1, 2, 5, 6, 8-13, and 16-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Imai et al (6,140,025).

In Example 5 (see also abstract, col.9, lines 36-39), Imai adds 3 parts of acetic acid into 100 parts (solid content) of a photosensitive solution, which is obtained by mixing 100 parts of a photocurable resin (which is obtained by addition reaction of acrylic acid and a copolymer of methyl acrylate/styrene/butyl acrylate/glycidyl methacrylate/dimethylaminoethyl methacrylate), 0.5 part of photosensitizer, 55 parts of trimethylolpropane triacrylate and 20 parts of a titanocene compound. This gives 1.2 parts of acetic acid per 40 parts of the photocurable resin. Imai imagewise exposes the resist film formed from his photosensitive composition and then the exposed resist film

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is developed to obtain a resist image. Thus, Imai teaches present invention of claims 1, 2, 5, 6, 8-13, and 16-20 (since Imai teaches presently named acetic acid, it inherently follows that the acetic acid does not polymerize with Imai's resin).

Claim Rejections - 35 USC § 103

- 7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Imai et al (6,140,025).

As discussed above in Paragraph 6, Imai uses a titanocene compound (as a radical polymerization initiator) in his Example 5. Imai furthermore teaches the equivalence of the titanocene compound and *benzophenone* (col.6, lines 40-47, line 65). Because the prior art teaches the equivalence of those compounds, it would have been obvious to one skilled in the art to use benzophenone as Imai's radical initiator in his Example 5. Therefore, Imai's teaching renders obvious present invention of claim 7.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333. The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

l. f. f.

S. Lee April 29, 2006

SIN LEE